Performance Data Sheet

HGA2434ZXA

General Information

Model	HGA2434ZXA	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	2450	2210	1960	1720	1470	1220	966
	Watts	469	510	552	594	636	679	722
	Amps	5.53	5.85	6.18	6.51	6.84	7.18	7.51
	Lb/h	43.4	40.7	38.1	35.3	32.5	29.6	26.5
-35	Btu/h	2820	2540	2250	1970	1690	1400	1110
	Watts	486	532	577	624	670	717	764
	Amps	5.61	5.98	6.34	6.71	7.08	7.45	7.83
	Lb/h	48.8	46.1	43.4	40.6	37.7	34.8	31.7
-30	Btu/h	3220	2910	2590	2270	1940	1620	1290
	Watts	504	554	603	653	704	755	806
	Amps	5.71	6.11	6.51	6.92	7.33	7.74	8.16
	Lb/h	55.0	52.3	49.5	46.7	43.8	40.7	37.6
-25	Btu/h	3670	3310	2960	2600	2240	1880	1510
	Watts	522	575	629	683	738	792	847
	Amps	5.81	6.25	6.69	7.14	7.59	8.04	8.49
	Lb/h	62.0	59.3	56.4	53.6	50.6	47.5	44.3
-20	Btu/h	4150	3760	3360	2970	2570	2170	1760
	Watts	540	597	655	713	771	829	888
	Amps	5.93	6.40	6.88	7.37	7.85	8.34	8.83
	Lb/h	69.8	67.0	64.2	61.3	58.3	55.1	51.9
-15	Btu/h	4670	4240	3800	3370	2930	2490	2050
	Watts	558	619	680	742	804	866	929
	Amps	6.05	6.56	7.08	7.60	8.12	8.65	9.18
	Lb/h	78.5	75.7	72.8	69.8	66.8	63.6	60.4
-10	Btu/h	5220	4750	4280	3800	3330	2850	2360
	Watts	575	640	705	770	836	902	969
	Amps	6.17	6.73	7.28	7.84	8.40	8.96	9.53
	Lb/h	88.0	85.2	82.2	79.2	76.2	73.0	69.7
-5	Btu/h	5810	5300	4780	4270	3750	3230	2710
	Watts	591	660	729	798	867	937	1010
	Amps	6.30	6.90	7.49	8.08	8.68	9.28	9.88
	Lb/h	98.4	95.5	92.6	89.6	86.5	83.2	79.9

0	Btu/h	6420	5870	5320	4760	4200	3640	3080
	Watts	607	679	751	824	897	971	1040
	Amps	6.44	7.07	7.69	8.33	8.96	9.60	10.2
	Lb/h	110	107	104	101	97.7	94.4	91.1
5	Btu/h	7070	6480	5880	5280	4680	4080	3480
	Watts	621	697	773	849	926	1000	1080
	Amps	6.57	7.24	7.90	8.57	9.24	9.91	10.6
	Lb/h	122	119	116	113	110	107	103
10	Btu/h	7740	7110	6470	5830	5190	4550	3900
	Watts	634	713	793	873	953	1030	1110
	Amps	6.71	7.41	8.11	8.81	9.52	10.2	10.9
	Lb/h	135	132	129	126	123	120	116

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.083460E+04	3.140030E+01	1.447185E+00	1.322629E+02
C2	1.906967E+02	-2.845797E+00	-3.138720E-02	2.379967E+00
C3	-5.542786E+01	7.208105E+00	6.258581E-02	-2.889882E-01
C4	6.695436E-01	-1.484915E-02	7.253150E-05	1.779789E-02
C5	-7.998506E-01	7.301131E-02	7.278832E-04	-3.450165E-04
C6	8.413525E-03	-8.125079E-04	-7.527590E-06	2.514768E-04
C7	-2.267166E-03	-2.981329E-04	-2.017666E-06	2.984765E-05
C8	-1.103260E-03	-1.111402E-04	-6.046126E-07	8.790034E-06
C9	-8.321176E-05	-3.113606E-06	1.466827E-08	-2.037081E-07
C10	-5.800353E-05	7.265602E-06	6.400439E-08	-2.051345E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature